

## **MODULAR CELL CULTURE BIOREACTOR AND ASSOCIATED METHODS**

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### **Abstract Of The Disclosure**

An apparatus and method for a modular cell culture bioreactor comprises a plurality of chambers for cell culture; at least one reservoir containing a cell support medium; a plurality of conduits fluidly connecting the at least one reservoir with the plurality of chambers; and at least one pump  
10 fluidly connected through the plurality of conduits with the at least one reservoir and with the plurality of chambers to pump cell support medium therethrough; wherein each individual chamber of the plurality of chambers includes at least one three-dimensional matrix comprising polyethylene terephthalate, a plurality of channels carrying the cell support medium and  
15 having the matrix positioned in fluid communication therebetween, and at least two openings into each the channel, wherein a first the opening is in fluid connection with the pump and a second the opening is in fluid connection with the reservoir.